



NCDOT Prioritization 3.0 Project Summary

SPOT ID: H090352

Mode: Highway

Status: Submitted

NC-105

From/Cross Street: US 321 (Blowing Rock Road)

Specific Improvement Type: 11 - Access Management

To: NC 105 Bypass

Project Category: Statewide Mobility

Length: 2.12

TIP#: U-5603

Fully Funded in Draft STIP? No

Cost to NCDOT: \$6,500,000

Description:

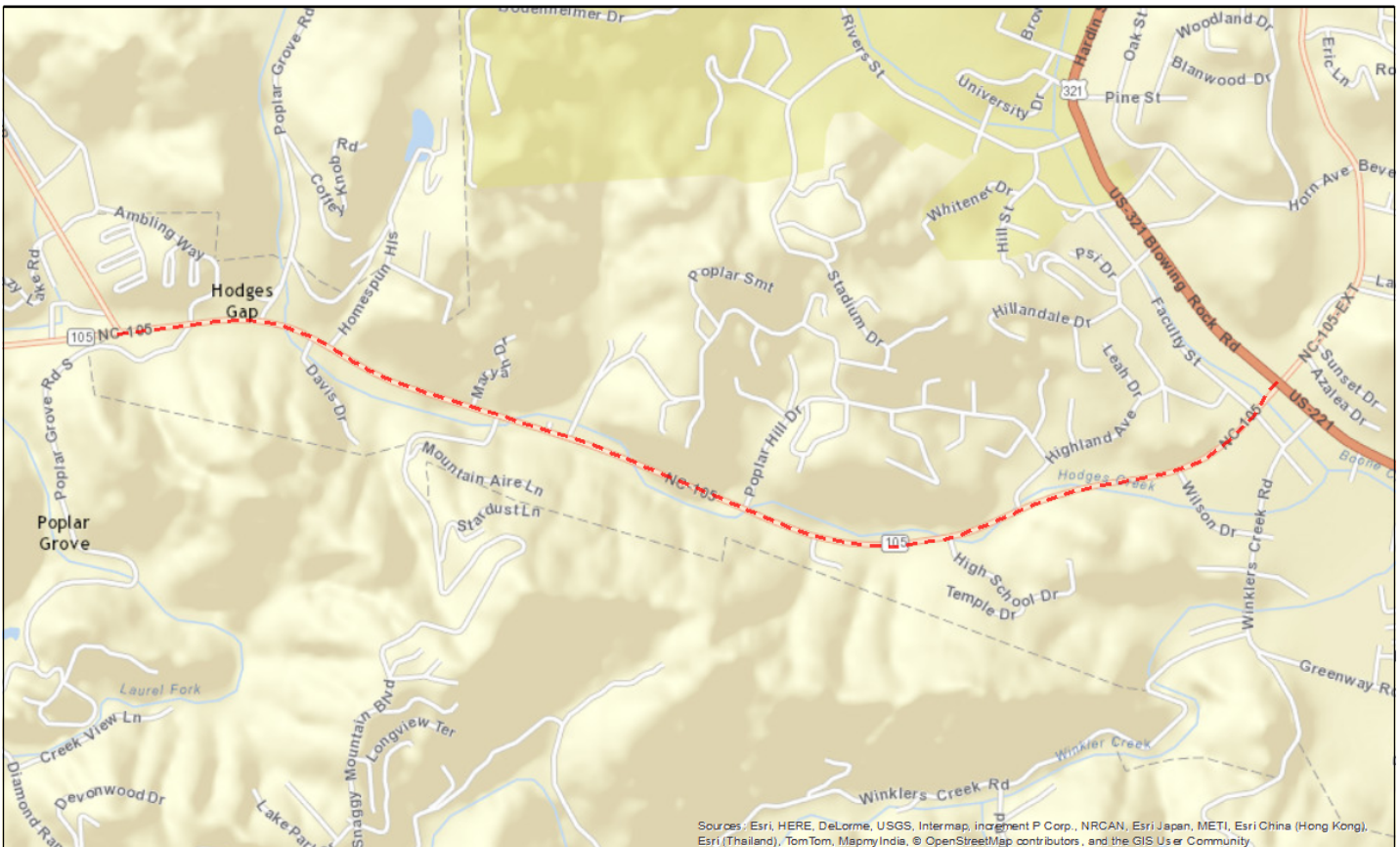
Upgrade Roadway to Improve Capacity, Safety, and Access Management including Raised Medians, Directional Crossovers, & Traffic Signals

Division(s): Division 11

County(s): WATAUGA

MPOS(s)/RPO(s): High Country RPO

Project Location



Statewide Mobility Total Score: 26.79

Quantitative Score	Division Engineer Local Input Points	MPO/RPO Local Input Points
Congestion (V/C) (30%) 57.32	N/A	N/A
Safety (10%) 59.38		
Economic Competitiveness (10%) 4.78		
[Travel Time] Benefit/Cost (30%) 4.13		
Multimodal + [Freight & Military] (20%) 9.67		
Totals: Weight: 100% Weighted Score: 26.79		

Regional Impact Total Score: 37.13

Quantitative Score	Division Engineer Local Input Points	MPO/RPO Local Input Points
Congestion (V/C) (25%) 57.32	Percent: 15% Points: 100	Percent: 15% Points: 0
Safety (10%) 59.38		
[Travel Time] Benefit/Cost (25%) 4.13		
Accessibility / Connectivity (10%) 8.33		
Totals: Weight: 70% Weighted Score: 22.13		

Division Needs Total Score: 43.23

Quantitative Score	Division Engineer Local Input Points	MPO/RPO Local Input Points
Safety (10%) 59.38	Percent: 25% Points: 100	Percent: 25% Points: 0
[Travel Time] Benefit/Cost (20%) 4.13		
Congestion (V/C) (20%) 57.32		
Totals: Weight: 50% Weighted Score: 18.23		

Project Data ***Existing Conditions**

Existing Cross-Section:	
Speed Limit:	35
Length (miles):	2.12
Facility Type:	Arterial
Access Control:	None
Functional Classification:	Other Principal Arterial
Terrain Type:	Mountainous
Lane Width:	12
Paved Shoulder Width:	0
Roadway has Curb & Gutter?	Yes
Volume (AADT):	25000
Capacity:	31700
Volume/Capacity Ratio:	0.79
% Autos:	92%
% Trucks:	8%
Truck Volume:	1934.78
Crash Density:	76.39
Crash Severity:	33.24
Critical Crash Rate:	68.54
Crash Frequency:	0
Severity Index:	0
County Tier Designation:	3
Non-Interstate STRAHNET Route?	No
Average Commuting Time:	12
Existing Median Type (for Cost Estimation):	Undivided
Pavement Condition Rating:	53
Actual Congested Speed:	0
Travel Time Index:	0

Project Benefits

Project Cross-Section:	4D - 4 Lane Divided (23' Raised Median) with Curb & Gutter, Wide Outside Lanes, Bike Lanes, and Sidewalks
Speed Limit:	35
Length (miles):	2.12
Facility Type:	Arterial
Access Control:	None
Functional Classification:	Other Principal Arterial
Terrain Type:	Mountainous
DOT Design Lane Width:	12
DOT Design Paved Shoulder Width:	4
Travel Time Savings for 30 Years (Total):	1182109.38
Travel Time Savings for 30 Years (Autos):	1090624.56
Travel Time Savings for 30 Years (Trucks):	91484.82
Long-Term Employment:	20
% Change in Economy:	7.57E-05
Provides Direct Connection to Transportation Terminal?	No
Does project upgrade how the roadway functions?	No
In CTP or LRTP?	No
CTP/LRTP Name:	
CTP/LRTP Completion Year:	
Submitted by:	Division 11

* Data reflects calculations which include weighted averages (where applicable) and represent raw output from the Department's SPOT On!line tool and associated databases.

Project Ownership**Division**

Division	Percent	Regional Impact	Division Needs
Division 11	100%	100	100
	0%	0	0
	0%	0	0
TOTAL Division Points		100	100

MPO/RPO

MPO/RPO	Percent	Regional Impact	Division Needs
High Country RPO	100%	0	0
	0%	0	0
	0%	0	0
TOTAL MPO/RPO Points		0	0

Project Cost and Source

Construction Cost:	\$5,400,000	TIP Unit
Right-of-Way Cost:	\$1,100,000	TIP Unit
Utilities Cost:	\$0	TIP Unit
Total Project Cost:	\$6,500,000	
Other Funding:	\$0	None
Cost to NCDOT :	\$6,500,000	